

Team K

SwithS :

Sungkyunkwan University's
study integration platform

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00. Recall project purpose

: 00. Recall project purpose

What is the purpose of our project?

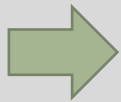


Study platform for SKKU students!

01. About Past Feedback

:01. About Past Feedback

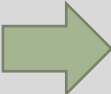
1) A lack of information between existing platform



	Only For Study Group	Recruiting System	Management System	Only for SKKU student
Hola	O	O	X	X
Everytime	X	O	X	O
KakaoTalk	X	△	O	△
SWithS	O	O	O	O
Naver Cafe	△	X	O	O

:01. About Past Feedback

2) A lack of a strategy for attracting users

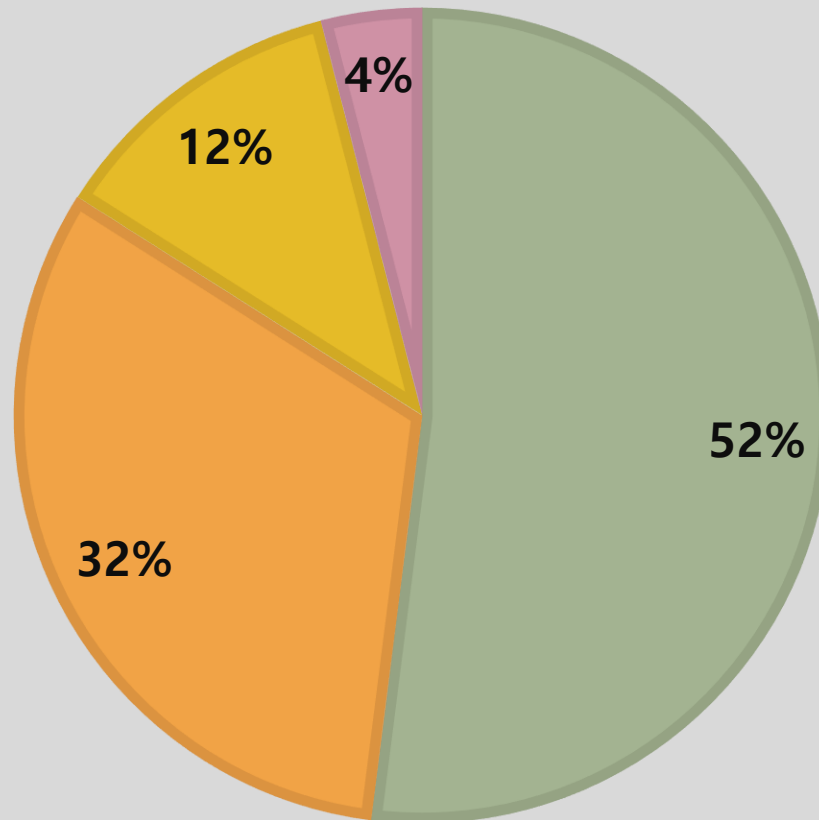
 **Add new function focusing on
study group management and use
only by SKKU students!**

02. About New Function

:02. About New Function

DIFFICULTIES IN THE STUDY GROUP

- Decide time
- Decide place
- Conflict with a partner
- Differences in level with partners




: 02. About New Function

Provides information on the **study room of SKKU Library** and the **time when everyone can gather.**

:02. About New Function

1) User Register Everytime time table URL

<div><div>에브리타임</div><div>게시판시간표강의실학점계산기친구책방캠퍼스픽</div><div><div>로그인</div><div>회원가입</div></div></div>					
김일건	월	화	수	목	금
오전 9시	인공지능개론 박호건 400118			운영체제 서의성 330110	
2023년 2학기					
오전 10시		운영체제 서의성 330110	인공지능개론 박호건 400118		
2023년 여름학기					
오전 11시					
2023년 1학기					
오전 12시			프로그래밍언어 황성재 26515	정보보호개론 구형준 26310	
2022년 겨울학기					
오전 1시	프로그래밍언어 황성재 26515	정보보호개론 구형준 26310			
2022년 2학기					
오전 2시					
2022년 여름학기					
오전 3시			기계학습원론 이종욱 26310		
2022년 1학기					
오전 4시	기계학습원론 이종욱 26310				
2021년 겨울학기					
오전 5시					
2021년 2학기					
오전 6시			데이터베이스프로젝트 이상원 26515		
2021년 1학기					
오전 7시					
2020년 1학기					
오전 8시					
2019년 2학기					
오전 9시					
2019년 1학기					
오전 10시					
2018년 1학기					
오전 11시					
2017년 겨울학기					

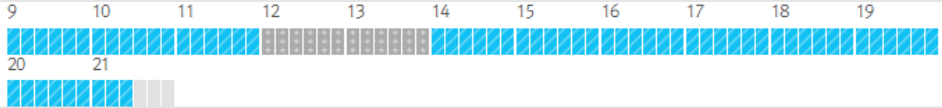

:02. About New Function

2) Crawling the data about everytime timetable

```
<internal value="SWE3003-41"/>
<name value="데이터베이스개론"/>
<professor value="남범석"/>
<time value="화16:30-17:45 【85712】 &lt;br>목15:00-16:15 【85712】 ">
  <data day="1" starttime="198" endtime="213" place="85712"/>
  <data day="3" starttime="180" endtime="195" place="85712"/>
</time>
<place value=""/>
<credit value="3"/>
<closed value="0"/>
</subject>
<subject id="5766084">
  <internal value="SWE3004-41"/>
  <name value="운영체제"/>
  <professor value="엄영익"/>
  <time value="월09:00-10:15 【26312】 &lt;br>수10:30-11:45 【26312】 ">
    <data day="0" starttime="108" endtime="123" place="26312"/>
    <data day="2" starttime="126" endtime="141" place="26312"/>
  </time>
```

: 02. About New Function

3) Crawling the data about study room of SKKU Library

이름	층	수용인원	예약현황	예약
스터디룸 3-1	3층	4 ~ 6		예약하기
스터디룸 3-2	3층	10 ~ 16		예약하기

```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
  "id": 2,
  "name": "자연과학캠퍼스"
},
"building": {
  "id": 3,
  "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 19:00:00",
"endTime": "2023-10-26 21:30:00",
"roomUseSection": {
  "id": 2,
  "code": "MEETING",
  "name": "회의"
},
"roomReservationState": {
  "id": 2,
  "code": "APPROVAL",
  "name": "예약됨"
}
}
```

```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
  "id": 2,
  "name": "자연과학캠퍼스"
},
"building": {
  "id": 3,
  "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 16:30:00",
"endTime": "2023-10-26 19:00:00",
"roomUseSection": {
  "id": 1,
  "code": "STUDY",
  "name": "학습"
},
"roomReservationState": {
  "id": 5,
  "code": "IN_USE",
  "name": "사용중"
}
},
}
```

```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
  "id": 2,
  "name": "자연과학캠퍼스"
},
"building": {
  "id": 3,
  "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 13:00:00",
"endTime": "2023-10-26 13:56:16",
"roomUseSection": {
  "id": 1,
  "code": "STUDY",
  "name": "학습"
}
},
}
```

:02. About New Function

4) Provide information about time and study room of SKKU Library

5) Provide a vote for a group of candidates

03. Progress - Frontend

: 03. Progress - Frontend

Page design

- Upload timetable

The screenshot shows a web interface for uploading a timetable. At the top, there is a header bar with the text "시간표 업로드" (Timetable Upload). Below this, there is a sidebar on the left with a button labeled "로그" (Logout) and a section titled "My Page". The main content area is titled "시간표 업로드" (Timetable Upload) and contains the instruction "사진을 업로드해주세요." (Please upload a photo.). Below this instruction is a large rectangular area for uploading a photo, with a small text label "사진의 내용이 입력되는 곳" (The place where the photo content is entered) and a small icon of a photo. At the bottom right of the main content area, there is a green button labeled "등록하기" (Register).

03. Progress - Frontend

Page design

- Upload timetable

[illegible]

:03. Progress - Frontend

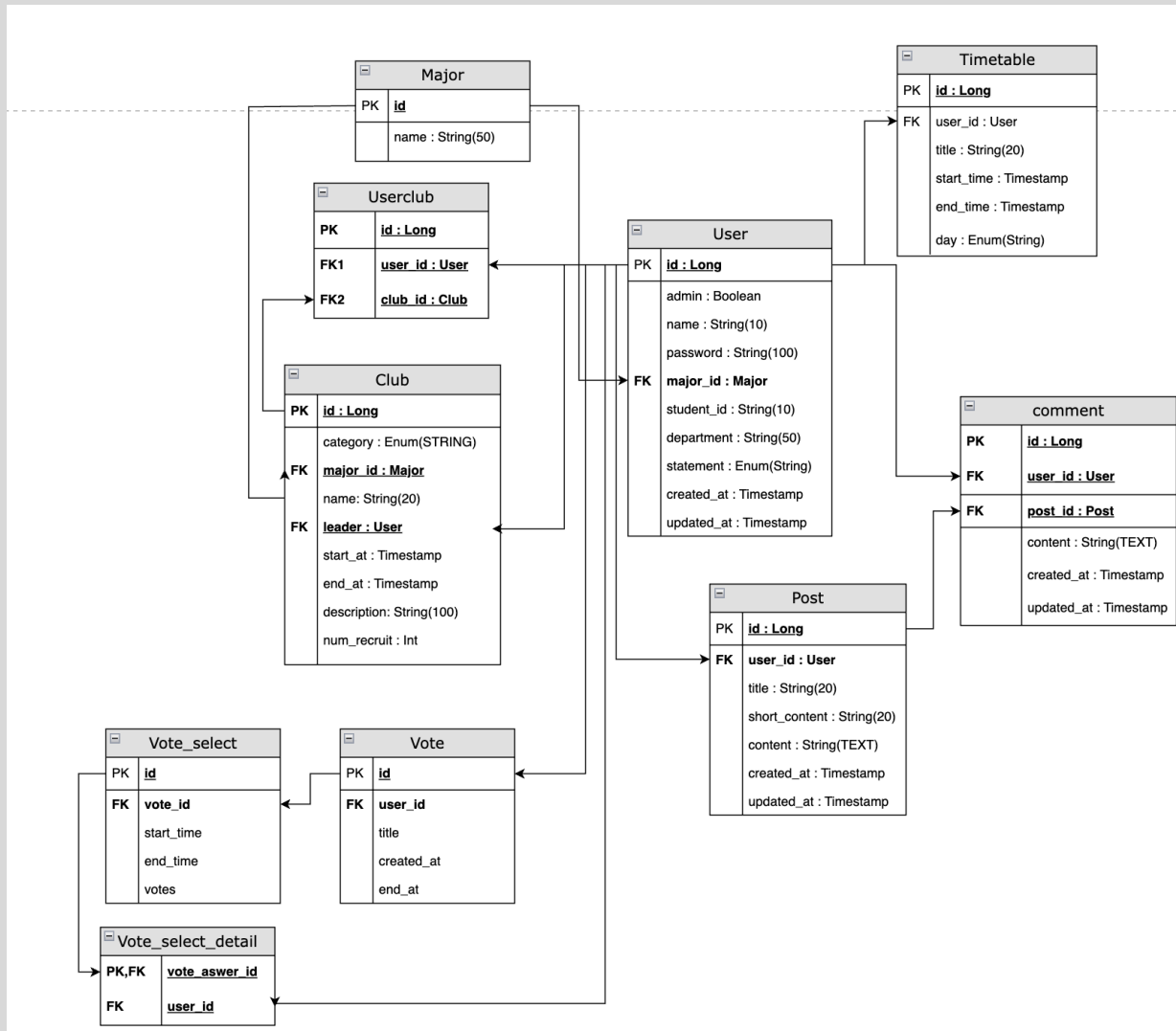
- Logo Design



04. Progress - Backend

: 04. Progress - Backend

1) DB design



:04. Progress - Backend

2) Implement Data Schema

```
mysql> show tables;
```

```
+-----+  
| Tables_in_swiths_db |  
+-----+
```

```
mysql> describe user;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| admin | bit(1) | NO | | NULL | |  
| statement | varchar(1) | YES | | NULL | |  
| created_at | datetime(6) | YES | | NULL | |  
| id | bigint | NO | PRI | NULL | auto_increment |  
| major_id | bigint | YES | INT | NULL | |
```

```
mysql> describe user_club;
```

```
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| club_id | bigint | NO | MUL | NULL | |  
| id | bigint | NO | PRI | NULL | auto_increment |  
| user_id | bigint | NO | MUL | NULL | |
```

: 04. Progress - Backend

```
@Entity
@Getter
@Setter
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(unique = true, nullable = false)
    private Long id;

    @Column(length = 30, nullable = false)
    private String email; // 유저 이메일

    @Column(nullable = false)
    private Boolean admin; // 유저에게 권한을 줄지말지 정함

    @Column(length = 20, nullable = false)
    private String name; // 유저이름

    @Column(length = 10, nullable = false)
    private String password; // 유저 비밀번호

    @OneToOne
    @JoinColumn(name = "major_id")
    private Major major;

    @Column(name = "student_id", length = 10)
    private String studentId; // 학번

    @Column(length = 10)
    private String department; // 학부

    @Column(length = 1)
    private String statement; // 학적상태

    @CreationTimestamp
    @Column(name = "created_at")
    private LocalDateTime createdAt = LocalDateTime.now();

    @CreationTimestamp
    @Column(name = "updated_at")
    private LocalDateTime updatedAt = LocalDateTime.now();

    @OneToMany(mappedBy = "user")
    private List<Post> posts = new ArrayList<>();
}
```

```
@Entity
@Getter
@Setter
public class UserClub {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(unique = true, nullable = false)
    private Long id;

    @ManyToOne
    @JoinColumn(name = "user_id", nullable = false)
    private User user;

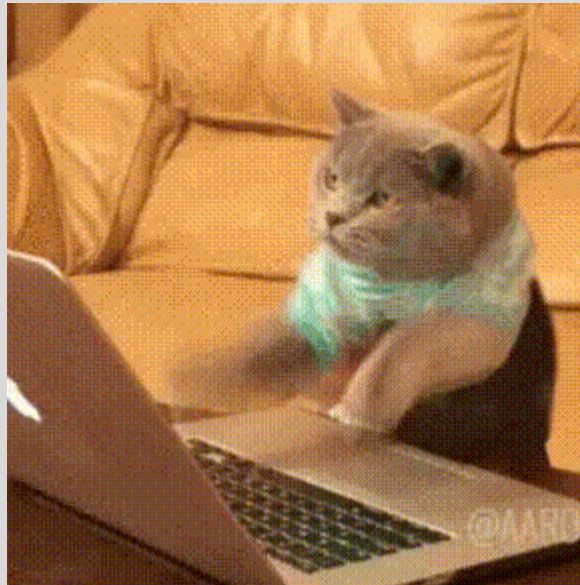
    @ManyToOne
    @JoinColumn(name = "club_id", nullable = false)
    private Club club;
}
```

05. Next week

: 05. Next week

Frontend - start develop

Backend - crawling & API develop



Thank you :)